

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: KLEER-VIEW CONCENTRATE VERSION 5 PG. 1
PRODUCT CODE: 2140 P/N 5091-5092-5093-5151 DATE 10/4/2004
CHEMICAL FAMILY: ALCOHOL BASED CLEANER

SECTION I

COMPANY NAME: CUL-MAC INDUSTRIES
ADDRESS: 3720 S. VENNOY RD.
WAYNE, MI 48184
PHONE: (734) 728-9700
EMERGENCY PHONE: (800) 535-5053

SECTION II HAZARDOUS COMPONENTS

CHEMICAL	% by wt.	CAS #	OSHA PEL	ACGIH TLV
METHANOL	99.4	67-56-1	200 ppm	200 TWA

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT	148° F @ 760 mm Hg	pH	N/A
FREEZING POINT	-144° F	SPECIFIC GRAVITY	0.792
VAPOR PRESSURE	96 mmHg @ 68° F	PERCENT VOLATILE	99
VAPOR DENSITY (AIR=1)	1.105 @ 59° F	APPEARANCE	dark blue
SOLUBILITY IN WATER	COMPLETE	ODOR	alcohol
EVAPORATION RATE (BUTYL ACETATE =1)	2.1		

SECTION IV FIRE & EXPLOSION DATA

FLASH POINT 52° F (TCC)
EXTINGUISHING MEDIA **For small fires:** Dry Chemical, Carbon Dioxide, Water Spray or Alcohol Resistant Foam. **For Large fires:** Water Spray, Fog or Alcohol Resistant Foam
SPECIAL PROCEDURES Vapors are heavier than air and may travel a considerable distance to a source of ignition and flash back. Vapor-Air mixtures are explosive. Consider evacuation downwind. Wear appropriate protection equipment.

If possible, move containers from fire area, apply cooling water to sides of containers ensuring that you stay away from the ends of tanks (bulk storage, rail cars, tank trucks) immediately if tanks are discolored or if rising sound is emitted from tanks. Minimum evacuation radius should be 1/2 mile.

SECTION V REACTIVITY DATA

STABILITY	Stable
HAZARDOUS POLYMERIZATION	Will not occur
DECOMPOSITION/COMBUSTION PRODUCTS	Oxides of Carbon

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SECTION V REACTIVITY DATA (CONTINUED)

INCOMPATIBILITY Acetyl Bromide, Alkylaluminium Compounds, Aluminium, Barium Perchlorate, Beryllium Hydride, Bromine, Calcium Carbide, Chlorine, Chloroform with Sodium Hydroxide, Chromium Trioxide, Methyl Chloride, Diethyl Zinc, Hydrogen Peroxide, Iodine with Ethanol, Lead & Lead Perchlorate, Magnesium, Nickel, Nitric Acid, Oxidizers, Perchloric Acid, Phosphorous Trioxide, Plastics, Rubber and Coatings, Potassium, Potassium Hydroxide, and Potassium-tert-Butoxide, Sodium with Chloroform, Sodium Hypochlorite, Sodium Methoxide with Chloroform, Sulfuric Acid, Zinc.

CONDITIONS TO AVOID Exposure to Heat, Flame or Ignition Sources. Contact with Incompatible Substances.

SECTION VI HEALTH HAZARD DATA

ROUTES OF ENTRY Skin, Eyes, Ingestion, Inhalation

POTENTIAL HEALTH EFFECTS: **INGESTION** - Poison by ingestion. May cause nausea, vomiting, diarrhea, difficulty breathing, low blood pressure, irregular heartbeat, headache, drowsiness, drunkenness, disorientation, loss of hearing, light intolerance (eyes), Blindness, Skin Discoloration (bluish), congestion of the lungs, nerve damage, convulsions, and coma.
SKIN CONTACT - May cause irritation. Absorption may lead to effects described in ingestion.
INHALATION - Narcotic and Neurotoxin. May cause respiratory tract irritation. Ringing in the ears, digestive disorders, drunkenness, numbness, twitching, visual impairment and nerve damage. Intentional concentration and inhalation of vapors may cause central nervous system damages, blindness and death.
EYE CONTACT - Contact may cause moderate irritation. Repeated or prolonged contact may cause conjunctivitis.

HEALTH HAZARDS (acute & chronic)

CARCINOGENICITY NOT LISTED BY OSHA, IARC, OR NTP

EMERGENCY & FIRST AID PROCEDURES:
SKIN: Wash with soap & water. **EYES:** Flush immediately with running water for 15 minutes and seek medical attention. **INHALATION:** Remove to fresh air & obtain medical attention.
INGESTION: Swallowing methanol is life threatening. Onset of symptoms may be delayed for 18 - 24 hrs after ingestion. If conscious and medical aid is not immediately available, **INDUCE VOMITING** and immediately transport to medical attention

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SECTION VII PRECAUTIONS FOR SAFE HANDLING & USE

SPILL OR LEAK PROCEDURES: Shut off Source, if without risk. Evacuate non-essential personnel. Eliminate all sources of ignition. Dike area to prevent spreading. Prevent runoff into sewers, waterways, ditches, or streams.

WASTE DISPOSAL METHOD: Shovel or pump to a salvage tank using non-sparking equipment. Absorb residual material with an inert absorbent. Shovel absorbed residue into properly identified drums for later disposal. Contact local officials as required.

SPECIAL PRECAUTIONS:

HANDLING PROCEDURES: This product must be handled by properly trained personnel. Use proper handling equipment for specific handling operation. When transferring material from one container to another, ensure bonding and grounding to prevent static discharge. Do not breath vapors. Avoid all skin and eye contact by wearing proper protective equipment. Handle away from all sources of ignition and incompatible materials.

STORAGE PROCEDURES: Store away from all sources of ignition and incompatible materials. Ensure that the storage area is adequately ventilated and equipped with proper emergency response equipment in the event of a leak, spill, or fire. Observe all Federal, State, and Local Regulations when storing this product.

SECTION VIII CONTROL MEASURES

RESPIRATORY PROTECTION (specify): The specific respirator selected must be based on contamination levels found in the work place, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA). The following are the minimum recommendations for approved respirators

200 ppm - Any Supplied Air Respirator
5000 ppm - Any Supplied Air Respirator operated in continuous flow mode
10,000 ppm - Any supplied air Respirator with tight fitting facepiece and operated in a continuous flow mode
25,000 ppm - Any Air Supplied Full Facepiece Respirator operated in a pressure-demand or positive pressure mode
Escape - Any approved Escape-Type Respirator

VENTILATION: Ensure that ventilation system used is designed to meet published exposure limits. Proper handling systems should be designed for

specific handling operation.

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SECTION VIII CONTROL MEASURES (CONTINUED)

PROTECTIVE CLOTHES:	Impervious Gloves and Clothing to prevent skin contact.
EYE AND FACE PROTECTION:	Safety Goggles and a Face Shield
OTHER PROTECTIVE EQUIPMENT:	Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain within the immediate work area for emergency use. Where there is any possibility than an employee's skin may be exposed to this substance, the employer should provide a quick drench shower within the immediate work area for emergency use.

SECTION IX ADDITIONAL INFORMATION

HAZARD RATING	HEALTH	2
	FLAMMABILITY	4
	REACTIVITY	0
	PPE	

DISCLAIMER

The information herein has been from sources believed to be accurate, reliable, and up to date to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources and expressly do not make any warranties nor assume any liability from its use or misuse.